GOVERNMENT OF INDIA
MINISTRY OF NEW AND RENEWABLE ENERGY
LOK SABHA
UNSTARRED QUESTION NO. 2780
TO BE ANSWERED ON 04.01.2018

SOLAR POWER PRICES

2780. SHRI RAM CHARITRA NISHAD:

Will the Minister of NEW AND RENEWABLE ENERGY be pleased to state:

(a): whether the solar power prices in the country may be set to fall below those of thermal energy soon and if so, the details thereof;

(b): whether this is based on an expected cost of around Rs. 2.90 per unit for the solar power projects at Bhadla in Rajasthan that have received 51 bids and if so, the details thereof; and

(c): whether the solar power has seen a significant fall in tariffs from Rs. 10.95 - 12.76 per kilowatt-hour (kWh) in 2010-11 and if so, the details thereof?

ANSWER

THE MINISTER OF STATE FOR POWER AND NEW & RENEWABLE ENERGY (I/C)
(SHRI R.K. SINGH)

(a) and (b): The solar power tariffs are discovered through open transparent competitive bidding. It had come down to the level of Rs. 2.44/kWh in May, 2017 for Bhadla solar project in Rajasthan. This tariff is below the National Average Pooled Power Purchase Cost (NAPPC) which is in the range of Rs. 3.48/kWh. Further reduction in solar power tariffs depend upon several factors like solar irradiance at the site, cost of capital, logistics, guaranteed offtake and state government policies for promotion of solar energy.

(c): The solar power tariffs have seen a downward trend in the country in recent years. The details are given in **Annexure.**

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ANNEXURE

ANNEXURE REFERRED TO IN REPLY TO PART (C) OF LOK SABHA UNSTARRED QUESTION NO. 2780 FOR 04.01.2018

National Solar Tariff through bid results

Sl. No		Year	Capacity on Offer (MW)	Weighted Avg. Price (Rs./KWh)
1	NSM Batch 1	Dec'10	150	12.16
2	NSM Batch2	Dec'11	350	8.79
3	Orissa Phase 1	Mar'12	25	8.36
4	Orissa Phase 2	Dec'12	25	8.73
5	Karnataka	Apr'12	60	8.34
6	Madhya Pradesh	Jun'12	125	8.05
7	Tamil Nadu	Mar'13	150	6.48*
8	Rajasthan	Mar'13	75	6.45 (L1)
9	Andhra Pradesh	Apr'13	226	6.49 (L1)
10	Punjab Phase 1	June'13	270	8.41
11	Uttar Pradesh Phase 1	Aug'13	130	8.9
12	Karnataka Phase 2	Aug'13	130	6.87
13	Madhya Pradesh Phase 2	Jan'14	100	6.86
14	Andhra Pradesh Phase 2	Oct'14	500	5.75** (6.75 Level.)
15	Karnataka	Nov'14	500	6.94
16	Telangana	Nov'14	500	6.72
17	Punjab (Capacity 5-24 MW)	Feb'15	100	7.17
18	Punjab (Capacity 25-100 MW)	Feb'15	100	7.16
19	NTPC Anantapur(CPSU scheme)	May'15	250	6.16*** (L1)
20	Uttar Pradesh Phase 2	June'15	215	8.04
21	Madhya Pradesh	June'15	300	5.36
22	Telangana Group 1****	August'15	500	5.73
23	Telangana Group 2****	August'15	1500	5.62
24	Punjab	Sept'15	500	5.65
25	Uttarakhand	Oct' 2015	170	5.766
26	AP-500 MW Bundling scheme	Nov'2015	500	4.63
27	AP-350 MW Bundling scheme	Dec'2015	350	4.63
28	AP-150 MW Bundling scheme(DCR)	Dec'2015	150	5.123
29	Haryana(State scheme)	Dec'2015	150	5.00
30	Rajasthan-420 MW Bundling	Jan'2016	420	4.351
31	UP-100 MW Bundling	Jan'2016	100	4.78
32	Rajasthan-100 MW	March'16	100	5.068

	Bundling(DCR)			
33	Telangan-50 MW Bundling(DCR)	March'16	50	5.19
34	Jharkhand-200	March'16	102	5.464
35	Jharkhand-1000	March'16	999	5.356
36	Telangan-350 MW Bundling	May'16	350	4.667
37	Karnataka-500 MW Bundling	May'16	500	4.79
38	KA-100 MW bundling(DCR)	Sept-16	100	4.85
39	MP-750 MW(State scheme)	Feb-17	750	2.9743# (3.30 Level tariff)
40	AP-250 MW(Bundling)	April-17	250	3.15
41	Rajahthan-250 MW(VGF) Bhadla-IV	May-17	250	2.624
42	Rajahthan-500 MW(VGF) Bhadla-III	May-17	500	2.446
43	Tamil Nadu-1500 MW(State scheme)	July-17	1500	3.47##
44	Gujarat-500 MW	Aug-17	500	2.665
45	NTPC-250 MW(DCR)	Oct-17	250	3.14
46	Rajahthan-500 MW(VGF) Bhadla-III	Dec-17	500	2.474
47	Rajahthan-250 MW(VGF) Bhadla-IV	Dec-17	250	2.482